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consecutively providing the color data signals having a same color to the data lines by the demultiplexer unit before applying a different color signal.

B2

11. (Amended) A liquid crystal display device having a data driving unit and a liquid crystal panel having a plurality of data lines, comprising a demultiplexer unit connected between the data driving circuit and the plurality of data lines on the liquid crystal panel, the demultiplexer unit distributing color data signals from any one of output terminals of the data driving circuit to the plurality of data lines on the liquid crystal panel, the demultiplexer consecutively providing the color data signals having a same color to the data lines before applying a different color signal.

REMARKS

At the outset, the Examiner is thanked for the thorough review and consideration of the subject application. The Office Action of July 3, 2002, has been received and its contents thoroughly reviewed.

By this Amendment, claims 1 and 11 have been amended. Reexamination and reconsideration in view of the above amendments and following remarks is respectfully requested.

Claims 1 and 11 have been amended to correct minor typographical errors.

The Examiner rejected claims 1-20 under 35 U.S.C. § 103(a) as being unpatentable over Cairns et al. (Published UK Patent Application GB 2,333,174 A) in view of U.S. Patent No. 5,122,783 to Bassetti, Jr. (hereinafter Bassetti). This rejection is respectfully traversed.

Applicants respectfully submit that none of the cited references, singly or in combination, teaches or suggests a method for driving a liquid crystal display device having a

demultiplexer unit, including classifying color data signals to be applied to the demultiplexer unit from the data driver circuit by color; and consecutively providing the color data signals having a same color to the data lines by the demultiplexer unit before applying a different color signal, as recited in independent claim 1. Similarly independent claim 11 recites, a liquid crystal display device having a data driving unit, including the demultiplexer consecutively providing the color data signals having a same color to the data lines before applying a different color signal.

The Examiner states that Bassetti discloses a system where color data signals having a same color are consecutively provided to the data lines before applying a different color signal. However, Applicants respectfully submit that no such feature is taught or suggested by Bassetti, and therefore Applicants submit that Bassetti does not cure the acknowledged deficiencies of the primary reference, Cairns.

To the contrary, Bassetti teaches “selectively” energizing each color-producing sub area to produce a desired color mix, (see Bassetti at lines 1-7 and 20-25) but does not teach or suggest “consecutively providing the color data signals having a same color to the data lines ... before applying a different color signal,” as recited by independent claims 1 and 11 of the present invention.

Accordingly, Applicants respectfully submit that claims 1 and 11 and claims 2-10 and 12-20, which depend from claims 1 and 11, respectively are allowable.

Applicants believe the foregoing amendments place the application in condition for allowance and early, favorable action is respectfully solicited. Should the Examiner deem that a telephone conference would further the prosecution’s application, the Examiner is invited to call the undersigned representative at (202) 496-7500.

Applicants hereby authorize the Commissioner of Patents to charge any fees necessary to complete this filing, including any fees required under 37 C.F.R. § 1.136 for any necessary extension of time to make the filing of the attached documents timely, or credit any overpayment and fees to Deposit Account No. 50-0911. Further, if these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. § 1.136 for the necessary extension-of-time. A copy of this sheet is enclosed.

Dated: October 2, 2002

Respectfully submitted,

By 

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Attachment: Appendix Showing Claim Changes

PATENT TRADEMARK OFFICE



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Version With Markings to Show Changes Made

1. (Amended) A method for driving a liquid crystal display device having a demultiplexer unit connected between a data driving circuit and a plurality of data lines on a liquid crystal panel, the demultiplexer unit distributing color data signals from any one of the output terminals of the data driving circuit to the plurality of the data lines on the liquid crystal panel, the method comprising:

classifying color data signals to be applied to the demultiplexer unit from the data driver circuit by colors; and

consecutively providing the color data signals having a same color to the data lines by the demultiplexer unit before applying a different color signal.

11. (Amended) A liquid crystal display device having a data driving unit and a liquid crystal panel having a plurality of data lines, comprising a demultiplexer unit connected between the data driving circuit and the plurality of data lines on the liquid crystal panel, the demultiplexer unit distributing color data signals from any one of output terminals of the data driving circuit to the plurality of data lines on the liquid crystal panel, the demultiplexer consecutively providing the color data signals having a same color to the data lines before applying a different color signal.